

Work Order ID 163650

Wednesday, July 05, 2017 7:23:41 AM

163650

Page 1

Item ID: D412-707-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Emergency Escape Ladder

Start Date: 7/5/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 7/11/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: **DAS 21 9-89** Date: **JUL 05 2017**

Tooling:

Date:

Run Start ***NR1***

QC: Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
IIN D412-707	A ✓

JUL 05 2017

DAS 6 9-89

100

Document Control

0.00

100

DC

DOCUMENT CONTROL

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefiles and create labels per PPP D412-707-011 CHG002

DAS 27 9-89

120

Pick Kit

0.00

120

Packaging

Packaging

Memo

0.00

Packaging

JUL 06 2017

DAS 6 9-89

JUL 05 2017

130

QC4- 100% Inspect kits for completeness

0.00

130

QC

Memo

0.03

Quality Control

DA 27 9-89

JUL 06 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Page 2

Item ID: D412-707-011

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Emergency Escape Ladder

Start Date: 7/5/2017 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 7/11/2017 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Packaging	0.00							
140									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-707-011								
	Location: FG128B _____								
	PPP Rev: _____								
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.10							
Quality Control									

DAS
28
9-89
DAS
27
9-89

JUL 06 2017

17/7/16

DAS
21
9-89

JUL 06 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER : _____							

Picklist Print

Wednesday, July 05, 2017 7:23:45 AM

Page 1

Work Order ID: 163650

163650

Parent Item: D412-707-011

D412-707-011

Parent Item Name: Emergency Escape Ladder

Start Date: 7/5/2017

Required Date: 7/11/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A04.11.10New issueKJ/JLM
ISSUE DD VERF:EC
DD VERF:JLM
IPP REV:B 12.04.11 NEW
IPP REV:C 16.12.12 NOW @ CH002

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4617-041		Manufactured	No			120	Each	0.0000	1	1			
D4617-041									**	163226			
Emergency Escape Ladder													

DAS
27
9-89

DAS
6
9-89
JUL 05 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

Work Order ID 163650

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Page 1

Wednesday, July 05, 2017 7:23:41 AM

Item ID: D412-707-011 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*

Item Name: Emergency Escape Ladder

Start Date: 7/5/2017 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 7/11/2017 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: Date: JUL 05 2017 Tooling: Date: Run Start *NR1*
 QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
JIN D412-707	A	JUL 05 2017							
100	Document Control	0.00							
100	DOCUMENT CONTROL								JUL 05 2017
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefiles and create labels per PPP D412-707-011 CHG002								
120	Pick Kit	0.00							
120	Packaging								
Packaging	Memo	0.00							
Packaging									
130	QC4- 100% Inspect kits for completeness	0.00							
130									
QC	Memo	0.03							
Quality Control									

DAS
5
9-89



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Eagle Copters Maintenance Ltd.
823 McTavish Road North East
Calgary, Alberta
Canada T2E 7G9

Number: SH93-66

Issue No.: 3

Approval Date: November 16, 1993

Issue Date: December 07, 2016

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

Bell 205A, 205A-1, 212, 412, 412 CF, 412 EP

Canadian Type Certificate or Equivalent:

H-86 (Bell 212, 412, 412 CF, 412 EP)
H1SW (Bell 205A, 205A-1)

Description of Type Design Change:

Emergency Escape Ladder Installation.

**Installation/Operating Data,
Required Equipment and Limitations:**

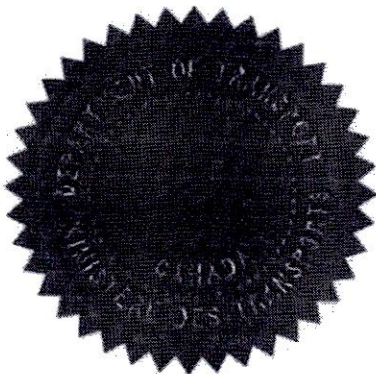
Installation of the Emergency Escape Ladder must be in accordance with Transport Canada Civil Aviation (TCCA) approved Dart Aerospace Limited (Ltd), Installation Instructions IIN-D412-707 Revision A, dated September 29, 2016 or later TCCA approved revision.

Maintenance of the Emergency Escape Ladder must be in accordance with TCCA accepted Dart Aerospace Ltd., Instructions for Continued Airworthiness ICA-D412-707 Revision 0, dated October 04, 2016 or later TCCA accepted revision.

Definition of the Type Design Change: TCCA approved Dart Aerospace Ltd., Master Document List MDL-D412-707 Revision A, dated December 01, 2016 or later TCCA approved revision.

Basis of Certification for Affected Areas: 14 CFR Part 29 at Amendment (Amdt) 29-2 plus the following later amendment; 14 CFR Part 29.21 at Amdt 29-24, 29.29 at Amdt 29-15, 29.337(a) and 29.613(d) at Amdt 29-30, 29.853(a)(2) at Amdt 29-23, 29.1529 at Amdt 29-20.

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Loy Y. Liew
For Minister of Transport

Canada